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problems are discussed: the use of two or more rows of
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cooling of lining. (48 references). v. a.

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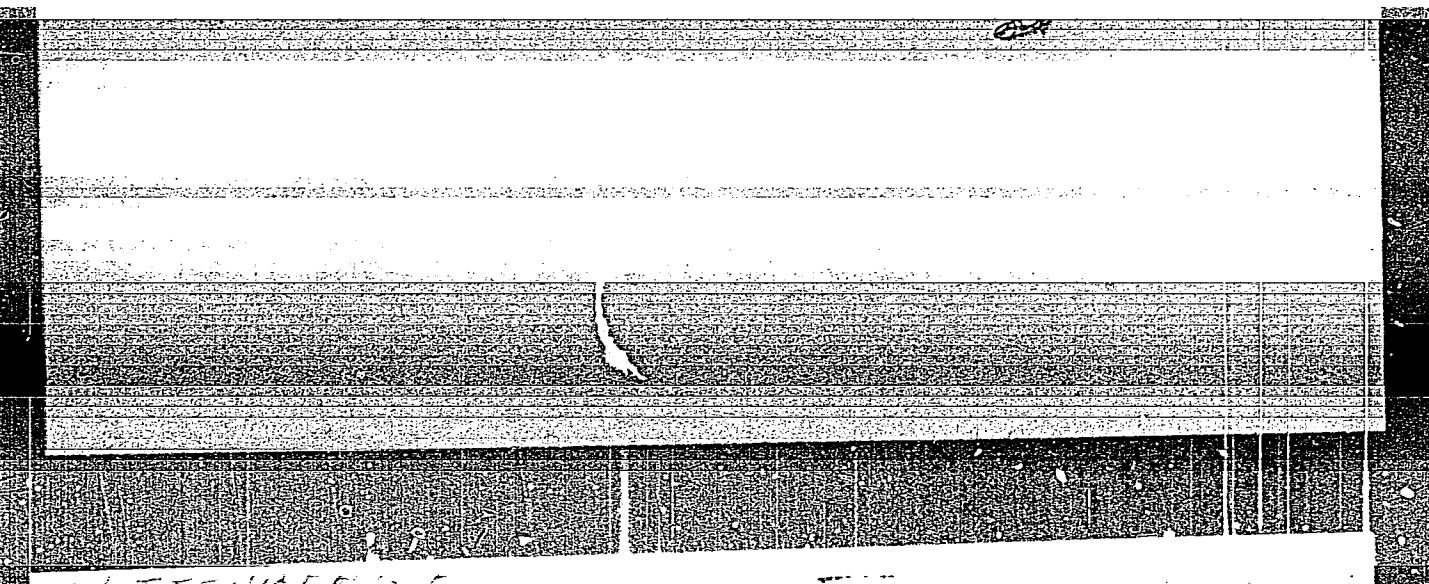
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SO: East European Accessions List, Vol. 34, no. 2, Feb. 1954.

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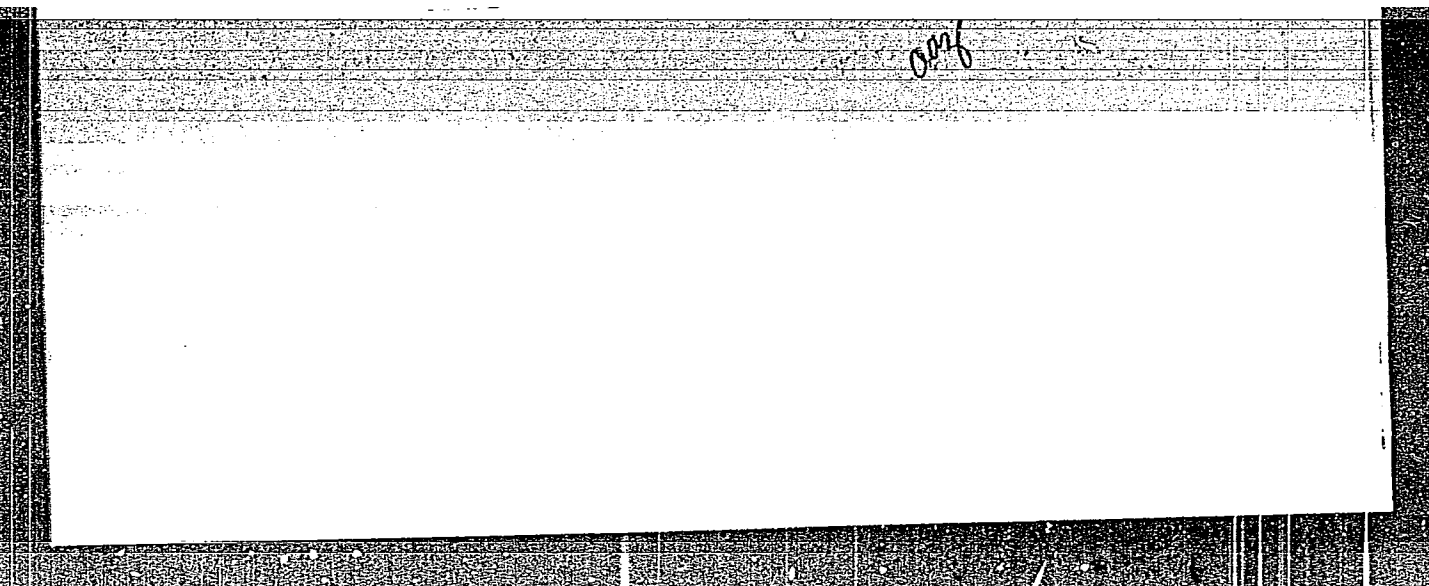


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297-300 July-Aug 54.

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prof. dr T.Pawlas.

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micrococcal)

(MICROCOCCAL INFECTIONS, experimental,
ecthyma)

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SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957
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Behavior in salinity variations. XLV. Study on osmoregulation, and on the role of the nervous system in the osmoregulation phenomenon in Hirudo medicinalis. p. 113.

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	(Fresh-water fauna)		

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Sectia de fiziologie animala comparata, Universitatea "Babes- Bolyai,"
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"Ion Borcea," Agigea, Constanta. 2. Membru corespondent al Academiei
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1. Center of Biologic Research, Rumanian Academy, Cluj Branch.

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1. Section of Animal Physiology, Center of Biological Research,
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Studii biol Cluj 14 no.1:121-128 '63.

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"Building Investments in Collective Farms in the Rzeszow Province in 1952." p. 3,
(BUDOWNICTWO WIEJSKIE, Vol. 5, no. 1, Jan./Feb. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no.5, May 1954/Uncl.

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SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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Gravity transport of stowing material. p. 155.
UNLI, Praha, Vol. 5, no. 5, May 1955.

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Uncl.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and
Their Application. Synthetic Polymers. Plastics.

H-29

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26973

Author : Wittich Walter

Inst : -

Title : Plastics in the Coal Industry.

Orig Pub : Uhli, 1957, 7, No 2, 55-59

Abstract : Physico-mechanical characteristics are given for the principal varieties of thermosetting and thermoplastic materials, and the prospects of their use in underground coal mining are considered. It is noted that at the present time there are utilized in the Czechoslovak mines plastic polyvinyl chloride, rigid polyvinyl chloride plastics and also polyamides.

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P. 265. (UHLL.) (Praha, Czechoslovakia) Vol. 7, No. 8, Aug. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

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Luminous signals in mines improve the safety of mining. Uhli 4
no.2:50-53 F '62.

1. Vedeckovyzkumny uhelny ustav, Radvanice.

WITTICH, Walter, inz.

Plastic materials and electrostatic phenomena in coal mines.
Uhli 4 no.4:115-117 Ap '62.

1. Vedeckovyzkumny uhelny ustav, Ostrava-Radvanice.

WITTICH, Valter, inz.

Development and use of plastic casings for water packings.
Uhli 5 no.8:281-282 Ag '63.

1. Vedecko-vyzkumny uhelny ustav, Ostrava-Radvanice.

WITTICH, Walter, inz.

Glued shaft guides for extraction cages and skips and their technical and economic merits. Uhli 6 no.6:205-207 Je '64.

1. Scientific Research Institute of Coal, Ostrava - Radvanice.

HUNGARY / Organic Chemistry. Synthetic Organic
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50439

Author : Wittig, G.

Inst : -

Title : Syntheses Based on Nitriles and Phosphines

Orig Pub : Acta chim. Acad. Sci. hung., 1957, 12, #3-4,
347-361.

Abstract : See R. Z. Khim, 1957, 794

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26 no.10:1141-1151 0 '57. (MIRA 10:10)

1. Khimicheskiy institut pri universitete v Tyubingene.
(Nitrogen) (Phosphorus)

HUNGARY/Human and Animal Physiology - Excretion.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18326

Author : M. Foldi, H. Kleinsorge, G. Bolland, P. Friedrich, F. Solti
and H. H. Wittig.

Inst : -

Title : The Effect of the Cerebral Cortex on Renal Function and
Hemodynamics in the Human.

Orig Publ : Magyar tud. akad. Biol. es orv. tud oszt kozl., 1957, 7,
No 4, 411-431.

Abstract : No abstract

WITTING, O.

"Contributions to the knowledge of annual and periodical fluctuation of the number of deer". p. 137, (REVISTA PADURILOR, Vol. 69, No. 3, Mar. 1954, Bucuresi, Rumania)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

WITTING, O.

Combat against animals injurious to game animals as a means to increase
cunegetic production. p. 618. REVISTA PADURILOR. (Asociatia Stiintifica a
Inginerilor si Technicienilor din Romania si al Ministerului Agriculturii si
Silviculturii) Bucuresti. Vol. 70, no. 12, Dec. 1955.

So. East European Accessions List Vol. 5, No. 8

August, 1956

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The lynx (Lynx lynx L.) a natural monument. p. 135.
(Ocrotirea "aturil, No, 2, 1956, Bucuresti, Romania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

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Basic gravimetric network in Czechoslovakia, p. 131

Vol. 65, No1/11 1953 (Pub. 1954)

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Praha, Czechoslovakia

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obsor 8 no.11:219 N '62.

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How to develop Visegrad? Musz elet 19 no.20:3 24 S '64.

WITTLIN, JERZY.

Opowiesc o Ziemi Polskiej. Warszawa, Iskry, 1955. 1 v. (unpaged) (Story about the Polish land. chiefly illus.)

So: Eastern European Accession. Vol 5, no. 4, April 1956

WITTMAN, Danuta

Circulatory leukocytes in otitis media. Otolaryngologia, 8 no.2:
133-150 1954.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej we Wrocławiu.
Kierownik: prof. dr T.Zalewski. 2. Z III Kliniki Chorob Wewnętrznych
Akademii Medycznej we Wrocławiu. Kierownik: prof. dr M.Szczeklik.

(OTITIS MEDIA, blood in,

leukocytes count)

(LEUKOCYTE COUNT, in various diseases,
otitis media)

WITTMANN, Gyula

Materialization of the fluidization pyrite roasting in Hungary and its experiences. Magy kem lap 15 no.8:370-376 Ag '60.

1. Vegyimuveket Tervezo Vallalat.

RENYI, Kazmer, dr.; WITTMANN, Istvan, dr.; PAZMANY, Jozsef, dr.

Case of vital diagnosis of dissecting aneurysm of the aorta.
Orv. hetil. 96 no.1:22-23 2 Jan 55.

1. A Nephadsereg Egesszeguyi Szolgalatanak koslemenye.
(AORTIC ANEURYSM,
dissecting, diag.: vital.)

WITTMAN, Istvan, dr.

Indications and contraindications for laparoscopy. Orv.hetil. 101
no.33:1167-1170 14 Ag.'60.

1. Budapesti Fovarosi Tanacs Balassa Janos Korhaza. I. sz.
Belosztadly
(ENDOSCOPY)

WITTMAN, Istvan, dr.

Diagnostic role of laparoscopy in diseases of the pancreas. Orv.
hetil. 102 no.14:640-643 2 Ap '61.

1. Budapesti Balassa Janos Korhaz, I Belosztaly.

(PANCREAS dis)

ROTH, Imre, dr.; GORECZKY, Laszlo, dr.; WITTMANN, Istvan, dr.

'Acute hepatic porphyria. Magy. Belorv. arch. 15 no.2:67-70 Áp '62.

1. MAV Korhaz es Kozponti Rendelo Intezet es a Fovarosi Tanacs
Balassa János Korhaza.

(LIVER DISEASES case reports) (PORPHYRIA case reports)

WITTMAN, Istvan, dr. ; PREISICH, Peter, dr.

Drug therapy of colitis ulcerosa (gravis). Orv. hetil. 105
no.15:685-690 12 Ap'64

1. Budapest, VIII. Kerületi Tanács Balassa Janos Korhaz,
I. Belosztaly.

WITTMAN, Istvan, dr.; ASZODI, Zoltan, dr.; PAPP, Laszlo, dr.

Recent use of dye solutions in diagnosis. I. Chromolaparoscopy.

Orv. hetil. 105 no.10:447-450 10 Mr*64.

1. Balassa Janos Korhaz, I. Belosztaly es Allatorvosi Egyetem.
Belgyogyaszati Klinika.

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WITTMAN, Istvan, dr.; TREBITSCH, Magdolna, dr.

Diagnosis and prognosis of fatty liver. Orv. hetil. 106 no.16:
737-739 18 Ap '65

1. Budapesti VIII. ker. Tanacs, Balassa Janos Korhaz, I.
Belosztaly.

HUNGARY

WITTAN, Istvan, Dr, ASZODI, Zoltan, Dr, PAPP, Laszlo, Dr; Balassa Hospital, I. Medical Ward (Balassa Korhaz, I. Belosztaly), and Veterinary Medical University, Medical Clinic (Allatorvostudományi Egyetem, Belklinika).

"Study of the Resorption of Dye Solutions, Administered Intravenously, Intraabdominally and Intrasplenically Into the Organism, by Means of Laparoscopic Control (Chromolaparoscopy II.)."

Budapest, Orvosi Hetilap, Vol 107, No 34, 21 Aug 66, pages 1598-1601.

Abstract: [Authors' Hungarian summary]. 1) It was determined on the basis of laparoscopic studies that the 13 different drug and dye solutions, administered i.v., i.a. and i.s., appear in the vessels of the abdominal organs (liver, gall bladder, gastrointestinal system) with intensities as indicated in a table. They cause clearly-visible changes on the surface of the abdominal organs. Resorption of the individual drugs and dye solutions is nearly identical after all three modes of administration. 2) The differences seen in the resorption of drug and dye solutions, according to their i.v., i.a. or i.s. administration, provide possibilities for diagnostic conclusions in the course of laparoscopy, mainly in diseases accompanied by vascular changes in the liver and certain abdominal visceral organs (liver cirrhosis, thrombosis of the vena lienalis, pylethrombosis, etc.). 3) Excretion of the drug and dye solutions studied occurs in the same manner after all three modes of administration, through the intestines and kidneys, in accordance with the mode and degree of their resorption. 1 Hungarian, 4 Western references.

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"Technique of bearing support and lubrication with special regard to internal combustion engines" by R.Kamps. Reviewed by Karoly Wittmann. Jarmu mezo gep 6 no.5:3 of cover '59.

WITTMANN, Karoly, Dr.

"Hydraulic driving gears" by A. Durr and O. Wachter. Reviewed by
Dr. Karoly Wittmann. Gep 12 no.1:8 Ja '60.

WITTMANN, K.

WITTMANN, K. Adapting stamping tools to any conditions. p.(3) of cover.

Vol. 8, No. 2, Feb. 1956.

GEP

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

WITTMAN, Tibor, a történelemtudomány kandidátusa, egy.docens(Szeged);
KOVACS, Istvan, az állam- és jogtudományok kandidátusa (Budapest)

Academic Days in Szeged. Magyar tud 68 no.7/8:472-477 J1-Ag '61.

1. Szegedi Tudományegyetem. (for Wittman) 2. Intézeti igazgató h.,
Magyar Tudományos Akadémia Állam- és Jogtudományi Intézete, Budapest.
(for Kovacs)

WITTMER, W.

New Malacodermata (Coleoptera) from New Guinea and New Britain in the collection of the Hungarian Museum of Natural History. In German. p. 213. Vol. 6, 1965
MAGYAR NEMZETI MUZEUM TERMESZETTUDOMANYI MUSEUM EVKONYVE. ANNALES HISTORICO-
NATURALES MASEI NATIONALIS HUNGARICI. Budapest, Hungary.

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

WITTNER, E., dr.; WINT Virginia, ing.; SCHWARTZ, D.

Anthropometric study as a base for scientific clothing
manufacturing. Ind text Rum 14 no.12:575-579 D'63.

WITTOCH, Z.

"A Philologist's Observations on the Way Language Helps to Illustrate the History of Medicine." p. 1247 (CASOPIS LEKARU CESKYCH, Vol. 92, No. 45, Nov. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

WITUCH / K.

WOZNICKA, Wanda; KOWSZYK, Zuzanna; BOROWIECKA, Barbara; CHOJNOWSKI, Wawrzyniec;
DOBRZANSKA, Roza; LUBINSKI, Olgierd; MAKAROWSKA, Zofia; NIEMCZYK, Hanna;
PASZKIEWICZ, Alina; RUCZAJ, Zbigniew; SOBICZEWSKI, Wojciech; SZCZESNIAK,
Tadeusz; SZENIAWSKI, Piotr; TERLECKA, Janina; WILK, Edyta; WITUCH, Krystyna

Alomycin; a new antifungal antibiotic. Med. dosw. mikrob. 9 no.4:441-450
1957.

1. Z Zakladu Antybiotykow Panstwowego Zakladu Higieny w Warszawie.
(ANTIBIOTICS, preparation of
alomycin, fungicidal properties. (Pol))

WITULSKA, F.

"Small Water-power Stations." p. 166 (GOSPODARKA WODNA, Vol. 13, No. 5, May 1953)
Warszawa

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 19,
October 1953. Unclassified.

WITULSKA, F.

"Possibilities and Advantages of Standardizing Elements of Small Water-Power Plants." p.70
(Gospodarka Wodna, Vol. 14, No. 2, Feb. 1954, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June,
1954, Uncl.

WITULSKA, F.

621.311.21

4020. Artificial increase of water head in a hydro-electric power station using an auxiliary turbine pump.

F. WITULSKA, *Przegląd elektrotech.*, 31, No. 1, 38-40 EP

(1955) in Polish.

The Euler patent [Germany, Feb., 1950, No. 808100,

k188a; see also *Wasserwirtschaft*, 5, 174-177 (1952)] proposing an increase of the effective water head on turbines of generators is discussed. An auxiliary turbine drives a pump to boost the effective pressure on the main turbine to permit a speed increase with a corresponding decrease in the size and cost of the power plant. This method is applicable to locations with small water head but with a large water flow. Two examples of application of this principle before the war are mentioned.

J. LUKASZEWICZ

WITULSKA, F.

✓ 1529. ARTIFICIAL INCREASE OF WATER HEAD IN A HYDRO-ELECTRIC POWER STATION USING AN AUXILIARY TURBINE PUMP. Witulska, F. (Przegl. Elektrotech. (Electrotech. Rev., Warsaw), 1955, vol. 31, (1), 38-40). The Euler patent (German P. 808100/1950) proposing an increase of the effective water head on turbines of generators is discussed. An auxiliary turbine drives a pump to boost the effective pressure on the main turbine to permit a speed increase with a corresponding decrease in the size and cost of the power plant. This method is applicable to locations with small water head but with a large water flow. Two examples of application of this principle before the war are mentioned. S.A.

WITULSKA, F.

Energy of wind as an undervalued source of power. p. 212 PRZEGLAD
TECHNICZNY (Naczelna Organizacja Techniczna) Warszawa. Vol. 76, no. 6,
June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress,
Vol. 4, no. 12, December 1955

WITULSKA, FELICJA

PHASE I BOOK EXPLOITATION

POL/4224

Maża energetyka; biuletyn, Nr 2 (Low-Capacity Power Engineering; Bulletin, No. 2).
Kraków, Towarzystwo naukowe dla wykorzystania źródeł energetycznych w Polsce,
1958. 131 p. 3,000 copies printed.

No editors mentioned.

PURPOSE: This bulletin is intended for power engineers and technicians specializing in the development of low-capacity natural resources and for users of such power resources for local agricultural and industrial applications.

COVERAGE: This collection of articles is devoted to the problems of the utilizations for local consumption of regional power resources other than coal and oil. Such energy resources include water, wind, sun, tides, natural and waste gases, peat, shale, hot springs and others less known or as yet unexplored. The study of such resources and of their use is presented in a series of articles concerning achievements and experience in Poland and other countries. There is a detailed bibliography, largely of non-Soviet and non-Polish source material, at the end of the book. No personalities are mentioned.

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Low-Capacity Power Engineering (Cont.)

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TABLE OF CONTENTS:

Asler, Roman, Master of Engineering, President of the Scientific Society for the Utilization of Energy Area Resources in Poland.

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Introduction

The author presents a short historical sketch of the development of the "Low-Capacity Power Engineering" idea, initiated by the Association of Polish Electrical Engineers (SEP) in 1952.

Brzeziński, Wacław, Professor of the Jagiellon University, Kraków.
Legal Problems of Low-Capacity Power Engineering

7

The author discusses the hydropower laws enacted in 1922 and never abolished and suggests certain changes necessary from the point of view of a socialist economy.

Witulska, Felicja, Master of Engineering, Warsaw. Low Capacity Power Engineering Abroad on the Background of General Electrification

15

The author presents an economic and social justification of low-capacity power developments which are meant to be supplementary to the general electrification of any country. Where a publicly

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Low-Capacity Power Engineering (Cont.)

available power supply is not accessible, a small local electric generating unit is desired. She then presents a short account of the state of electrification and, in particular, of low-capacity power developments in Belgium, Denmark, Great Britain, Holland, Sweden, Switzerland, the German Federal Republic, the German Democratic Republic, Austria, Finland, France (Continental and Algiers), Greece, Turkey, Yugoslavia, Italy, the USA, Czechoslovakia, Hungary, Rumania, Bulgaria, Albania and the USSR.

Stolbushkin, N.A. Engineer (translated by Jerzy Kubiowski, Engineer).
Air Compressor Installation VKU-3.5

The author describes an experimental air compressor installation VKU-3.5 designed by V.V. Savotin and built by the Special Bureau "Stroyvodpnevmatika" of the Ministry of Railroads, USSR. The VKU-3.5 installation was successfully tested in 1952 at the North Caucasus Experimental Machine Station under summer and winter operating conditions. This installation is intended for pumping water from mountain wells. It is equipped with a wind wheel 3.5 m in diameter which drives the compressor. The author gives

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Low-Capacity Power Engineering (Cont.)

a detailed description of the VKU-3.5 and of the results of its testing.

Witulska, Felicja, Master of Engineering, Warsaw. Water in the Service of the Electrification of Agriculture

48

The author points to the necessity of utilizing available water power for electrification of small rural areas where for economic reasons there is no publicly available power supply.

Lobczak, Jerzy, Master of Engineering, Kraków. Micro-Electric Power Stations

53

The author deals with the utilization of water power in mountain and near-mountain tourist and health resorts, farms, settlements, small local industries, etc. He gives examples of existing micro-electric power plants with up to 15-kw capacity.

Witulska, Felicja, Master of Engineering, Warsaw. Cooperation of Wind and Water

57

The author describes a system of small hydroelectric power plants supplemented by a system of wind-motor electric plants. The latter play an auxiliary role in pumping storage water. Such joint operation

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solves local problems of electrification, water supply, irrigation, etc.

Hamusz, Tadeusz. Master of Engineering, Kraków. Calculation and Design of Wind Motors

60

The author gives detailed illustrated instructions to non-specialists who intend to design wind motors for their own use.

Kubiatowski, Jerzy, Engineer. Soviet State Standard For Wind Motors
This is an illustrated translation of GOST 2656-55

85

Drozdowski, H., Professor. Where and How to Install a Wind-Motor
(on the basis of the book by A.V. Karmishyn)
The article deals with the methods of finding wind velocity and gives a scale of velocities.

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Demel, Jadwiga, Master of Engineering. Information Section 99

Malysa, Stanislaw and Karol Wiorkowski. Improvement of a Drum Type Wind Motor 99

The authors describe the improvements which they presented to the Patent Office.

Šourek, Jan, Czechoslovakia. Automation of a Small Hydroelectric Power Plant With an Induction Generator Without Speed Regulation 102

A description of the automation of a 70-kw hydroelectric power plant in Staré Splavy was received by the Editors and will be published in the next issue of the Biuletyn.

Characteristic of Automobile Generators 103

Kubiatowski, Jerzy, Engineer. Bibliography on the Subject of Utilization of Wind Energy, Part II 106

Kubiatowski, Jerzy, Engineer. New Publications on the Subject of Utilization of Wind Energy 130

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no.3:46-47 Mr '63.

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High-speed miniature telephone relay. Prace Inst teletechn 3 no.1:
41-66 '59.

WITULSKI, Stanislaw, inz.

A 100-line capacity electronic telephone exchange. Prace
inst teletechn. 7 no.4:97-100 '63.

1. Zaklad Badan i Studiow Teletechniki, Warszawa.

WITUS, B.

Average hematological values in children from four to fourteen years
of age. Polski tygod. lek. 7 no. 37:1140-1145 15 Sept 1952.
(GLML 23:5)

1. Of the Third Internal Clinic (Head--Prof. J. Aleksandrowicz, M.D.)
of Krakow Medical Academy.

Distr: 4E2c

206. Wituszynski, K., Stability and strength of a framed corrugated steel sheet (in Polish), Rozpr. Inzyn. 5, 4, 513-545, 1957.

Paper is concerned with a problem very important for the ship-building industry, the problem of load-carrying bulkheads of corrugated steel sheets in tankers built in Polish shipyards.

The present investigation of such a bulkhead is based on the theory of oblique tension in sheets loaded above the limit of elastic stability. The orthotropy of the corrugated sheet is taken into consideration as well as the appearance of stress concentrations and the rapid attainment of the yield point at the corners of trapezoidal waves (with small roundings), particularly disadvantageous from the point of view of strength. The theory of oblique tension being not very accurate, the assumption of a simplified stress distribution is justified. A nonuniform distribution of the horizontal components of the oblique tension stresses is assumed, while the vertical ones are assumed to be constant. In order to overcome the calculation difficulties, a substitute nonhomogeneity of the coefficient E for vertical tension is assumed (caused by the appearance of the buckling waves in the central part of the sheet). Therefore the stress trajectory of the oblique load is not rectilinear but S-shaped. A number of diagrams facilitate the calculation of the limit load for a sheet framed by sufficiently rigid stiffenings.

J. Naleszkiewicz, Poland

POLAND / Chemical Technology. Food Industry.

H-28

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79360.

Author : Wierszyllowski, J., Rusek Z., Wituszynski, Z.,
Charlampowicz, Z., Walczak, H.

Inst : Not given.

Title : The Productivity and the Technological Value of
Ten Varieties of Rasberries at a Starting Period
of Fruit-Bearing on a Plantation.

Orig Pub: Roczn. nauk Rolniczych, 1957, A 77, No 1,
131-159.

Abstract: No abstract.

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WITWICKA, Emilja

Micro-paleontological stratigraphy of the upper Cretaceous in
the Wisznice borehole. *Kwartalnik geol* 5 no.4:935-936 '61.

1. Zaklad Stratygrafii, Instytut Geologii, Warszawa.

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The microfauna stratigraphy of the Upper Cretaceous in Lukow,
Podlasie. Kwartalnik geol 6 no.2:389-390 '62.

1. Zaklad Stratygrafii, Instytut Geologiczny, Warszawa.

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Polarographic method applied in the diagnosis of occupation disease. p. 239

OCHRONA PRACY: BEZPIECZENSTWO I HIGIENA PRACY.

Warszawa

Vol 9, no. 8, August 1955

SOURCE: East European Accessions List (EEAL) IC Vol. 5, no. 3, March 1956

POLAND/Analytic Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhr-Khim., No 23, 1958, 77229.

Author : Witwicka, Jadwiga.

Inst :

Title : Polarographic Determination of Zinc in Nickel Catalyst.

Orig Pub: Przen. spożywczy, 1958, 12, No 4, 157-158.

Abstract: A method of determination of Zn admixtures in Ni catalyst is described. 0.02 to 0.1 g of the sample is dissolved in 5 ml of $(\text{NH}_4)_2\text{C}_2\text{O}_4$ (5%-aql solution of the salt in saturated KCl solution is diluted 10 times with water) or in up to 30 ml of 0.5 M K tartrate while heating it in a water bath, the solution is diluted with twice distilled water to 50 ml, 10 ml thereof is taken and polarographed during an uninterrupted passage through it of N_2 or H_2 for

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POLAND/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77229.

a 20 min. period. After that, the standard $ZnSO$ solution is added to it and, after having passed through it N_2 for a duration of 5 min., the solution is polarographed again. The $ZnSO_4$ solution for the operation is prepared by a tenfold dilution of an about 1%-ual initial $ZnSO_4$ solution and it is added to the polarographed solution in such an amount that the height of the polarographic wave should rise by not more than 30%. The amount of Zn x is computed (in %) with the following formula: $x = V_w \cdot C_w \cdot V_n \cdot (h_1 - hV_w/V_n) / V_{ng} [h_1 - (h_1 - hV_w/V_n)]$, where: V_w is the amount of the added $ZnSO_4$ solution in ml, V_n is the amount of the solution in the polarograph vessel in ml, C_w is the concentration of the $ZnSO_4$ solution in mg per ml,

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POLAND/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khin., No 23, 1958, 77222.

g is the weight of the sample in g, h and h_1 are the heights of the polarographic waves before and after the $ZnSO_4$ addition correspondingly. The relative error of Zn determination in the presence of $(NH_4)_2C_2O_4$ is $\pm 4.5\%$. Pb, Cu and Fe do not interfere. A solution of Na tartrate may be used instead of the K tartrate solution. The E_1^* and Na tartrates is equal to -1.20, -1.19 and -1.46 V correspondingly. - N. Turkevich.

*) for An on the background of $(NH_4)_2C_2O_4$ of K

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WITWICKA, Zofia

Cleft palate; a review. Otolaryng. polska 10 no.1:95-107
1956.

1. Z Kliniki Otolaryngologicznej A.M. w Warszawie Kierownik:
prof. dr. med. H. Lewenfisz.
(CLEFT PALATE,
review (Pol))